IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Commissioner for Patents P.O. Box 1450 Alexandria, VA 22313-1450

REVOCATION OF PRIOR POWERS OF ATTORNEY and NEW POWER OF ATTORNEY

The undersigned, authorized and acting on behalf of Azdel, Inc. (now Hanwha Azdel, Inc.), a Delaware corporation having a place of business at 2000 Enterprise Drive, Forest, VA 24551 US, and its domestic and foreign related entities, hereby revokes all powers of attorney previously given in the patent applications and patents listed on Schedule A appended hereto, and hereby appoints all practitioners of RHODES DONAHOE, PC associated with Customer Number

101012

as assignee's attorneys or agents with full power of substitution to take any and all action necessary with regard to the patent application referenced herein, and with regard to any patent, priority, divisional, continuing, continuation-in-part, substitute, renewal or reissue application(s), international applications or foreign equivalents thereof.

Please address all telephone calls to Christopher Rhodes (Reg. No. 47,022) at (540) 904-0398.

Please address all correspondence to the correspondence address associated with Customer Number:

101012

Date: 6/5,2012

For AZDEL, INC. (now HANWHA AZDEL, INC.)

Name: Thomas Ebeling, Ph.D.

By: Ton Ebely

Title: Vice President, Technology + Manufacturing Operations

TITLE	APPLICATION #	PATENT NO. or PUBLICATION NO.	REEL/FRAME NO.	RECORDATION DATE	ASSIGNEE
HIGH PERFORMANCE VEHICLE BUNIDER	07/834,016	N/A	008461/0980	4/17/1997	Azdet, Inc.
HIGH PERFORMANCE VEHICLE BUNKER	07/381,906	\$629574	008461/0980	4/17/1997	Azdel, Inc.
STRUCTURAL MEMBER	07/968,887	5348798	006375/0494	12/30/1992	Azdel, Inc.
FIRER REIMFORCED FUNCTIONALIZED POLYOLSTRU COMPOSITES	08/144,947	N/A	007421/0739	4/7/1995	Azdeí, Inc.
POLYDLEFIN COMPOSITES	08/396,122	5643989	007421/0739	4/7/1995	Azdel, Inc.
POLYPROPYLENE, FIBER COMPOSITES	08/552,714	5627226	014515/0190	4/14/2084	Azdel, Inc.
FROM MINERAL-FIGED GLASS MAT	09/511,574	6286879	010700/0924	3/20/2000	Azdel, Inc.
THERMOPLASTIC (GIAT) COMPOSITE					
Glass mul thermdolastic composite	10/696,869	20050095415	01456/0295	10/30/2003	Azdel, Inc.
Glass mat thermoplastic composite	11/141,238	7972685	. 016647/0438	5/31/2005	Azdel, Inc.
TANN SHEET THERMOTORMING PROCESS	10/800,505	7157034	015100/0979	3/15/2004	Azdel, Inc.
TWIN SHEET TETERMOLORMING PROCESS	10/981,338	7255391	015100/0979	3/15/2004	Azdel, Inc.
DECCRATIVE INTERIOR SOUND ASSCRBING PANEL	10/820,205	7318498	015058/0555	8/9/2004	Azdel, Inc.
SHEETS WITH SUBFACE COVERINGS	10/810,739	7244501	05816/0077	3/24/2005	Azdel, Inc.
EIRCR REINFORCED THERMOPLASTIC SHEEFS WITH SURFACE COVERINGS	11/441,709	7682697	017935/0956	5/26/2006	Azdel, Inc.
SHEETS REINFORCED THERMOPLASTIC SHEETS WITH SUBFACE COVERINGS	13/427,131	N/A	017935/0956	5/26/2006	Azdel, Inc.
COMPOSITE THERMODIASTIC SUPETS	10/983,535	7431980	015979/0493	11/8/2004	Azdel, Inc.

ASSIGNEE	Azdel, Inc.	Azdel, Inc.	Azdel, Inc.	Azdel, Inc.	Azdel, Inc.	Azdel, Inc.	Azdel, Inc.	Azdel, Inc.	Azdel, Inc.	Azdel, Inc.	Azdel, Inc.	Azdel, Inc.	Azđel, Inc.	Azdel, Inc.
RECORDATION DATE	2/16/2005	4/22/2005	4/5/2006	5/19/2005	3/10/2012	3/10/2012	N/A	3/10/2012	3/10/2012	3/10/2012	3/10/2012	3/10/2012	3/9/2012	3/9/2012
REEL/FRAME NO.	016289/0385	016505/0102	017425/0260	017922/0050	027839/0376	027839/0393	N/A/	027839/0448	027893/0445	027839/0436	027893/0479	027839/0466	027837/0515	027837/0515
PUBLICATION NO.	20060182947	7482648	7759267	20070269644	20070196637	20070269645	20080001429	20080008869	20080032094	20080070019	20090011210	20090155522	20100021718	N/A
APPLICATION #	11/058,776	11/112,651	11/278,748	11/437,997	11/645,979	11/784,515	11/799,752	11/805,259	11/799,450	11/893,613	12/070,372	12/002,518	12/220,410	13/416,617
TILE	Fiber reinferred the moplastic composite	CON POSITE THERMODIASTIC SHEETS INCLUDING AN INTEGRAL HINGE	UGITWZIGHT COMPOSITE THERMOPASTIC SHEEFS INCLUDING PENEORCING SKINS	Method of Increasing left in a parplist fiber	CONFOSTE MATERIAL	Unit welgh: the mediastic composite. Including reinforcing skips	Panel materials for vehicles and enclosures	Enhanced sound absorption in theimoplastic composites	Meldoble composite sheet with improved adhesion at elevated reprice temporatures	Thermoplastic composites with improved thermal and mechanical properties	Lightweight glass fibor reinforred the material	COAPOSITE PAGLUDINO BLUNECTIONAL FINE TAPES	The modest composite material with immoved smake generator, heat release, and mechanical properties.	Thermoplest's composite material with improped smake peneration, hear release, and medianical proporties
FILEN	HANAZO,701219	HANAZD-701319	HANAZ <u>5.7</u> 01419	11ANAZD 701519	HANAZD-701810	HANAZD-701910	HANAZD-702010	HANAZD-702110	HAMAZO 702219	HANAZD-702310	HAMAZD-702419	HANAZD: 702519	HANAZO-702619	HANAZB-79252 <u>0</u>